SPYWOLF

Security Audit Report

Completed on
March 6, 2023

OVERVIEW

This audit has been prepared for **PawNames** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

"

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PAWNAMES

PROJECT DESCRIPTION

According to their website/whitepaper:

"PawNames is a name service and decentralized identity platform available on Shibarium.

Send tokens from your wallet to someone else with a PawName immediately you buy one! With an in-built mini-wallet dApp, you'll be able to quickly and easily send and receive tokens to and from your PawName names without ever leaving the app. This gives instant utility to your PawName names, and allows you to test them out immediately!"

Release Date: Launched in March, 2023

Category: Domains

01

CONTRACT INFO

Token Name
Paw Names

Symbol
PNS

Contract Address
0x96cD5F740F542A001D364887532f8A1fa52cB96D

Network
Ethereum

Language
Solidity

Deployment Date
March 5, 2023

Verified?
Yes

Total Supply
10,000,000 PNS

Status
Launched

TAXES

Buy Tax
5%

Sell Tax
5%

*Taxes cannot be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

02

TOKEN TRANSFERS STATS

Transfer Count	908
Uniq Senders	204
Uniq Receivers	344
Total Amount	59930464.63014326 PNS
Median Transfer Amount	22769.703490777 PNS
Average Transfer Amount	61153.53533688088 PNS
First transfer date	2023-03-05
Last transfer date	2023-03-06
Days token transferred	2

SMART CONTRACT STATS

Calls Count	3269
External calls	322
Internal calls	3284
Transactions count	1314
Uniq Callers	340
Days contract called	2
Last transaction time	2023-03-06 11:37:11 UTC
Created	2023-03-05 23:52:23 UTC
Create TX	0xea89eb6d25ad82507252c099f15dde14d0 0011f50f48ce6775c9f784423fbd3c
Creator	0xe81e64bbaeeacdc990cb83868279c5d9d d3a15d3

FEATURED WALLETS

Owner address	0x0000000000000000000000000000000000000000 **Ownership is renounced** *Original owner: 0xe81e64bbaeeacdc990cb83868279c5d9dd3a15d3*
Marketing wallet	0x9E956d94476b21D1dcbf91d5a185B4FF7D6751ec
Development wallet	0xe81e64bbaeeacdc990cb83868279c5d9dd3a15d3
LP address	**Uniswap:** 0x7AA20906E0a5A8769EdA4f1baF3d84C9A50A0fc9

TOP 3 UNLOCKED WALLETS

1 **2.62%** 0xDF8941CD820622317595e0986361a6343EF5e66D

0x82427197Af995d76E91e1c8dcAEd8Dfa8451925A **2.49%** 2

3 **2.42%** 0x2ad0050d50d72109cA8caF0735521ec31524b2fa

04

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VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

05

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠️ High Risk

Development wallet and marketing wallet can initiate manual token swaps from contract and withdraw eth from the contract.
If contract's token swap balance is 0 transactions will fail.

```solidity
function manualswap() external {
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
    uint256 contractBalance = balanceOf(address(this));
    swapTokensForEth(contractBalance);
}

function manualsend() external {
    require(_msgSender() == _developmentAddress || _msgSender() == _marketingAddress);
    uint256 contractETHBalance = address(this).balance;
    sendETHToFee(contractETHBalance);
}
```

**Contract's ownership is renounced.
Owner do not have any special privileges.**

07-A

ℹ️ Informational

Before ownership renouncement owner could:
Enable/disable trading, blacklist address from trading.
Set fees without limit, set max transaction amount without limit.

```solidity
function setTrading(bool _tradingOpen) public onlyOwner {
    tradingOpen = _tradingOpen;
}

function blockBots(address[] memory bots_) public onlyOwner {
    for (uint256 i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}

function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell,
uint256 taxFeeOnBuy, uint256 taxFeeOnSell) public onlyOwner {
    _redisFeeOnBuy = redisFeeOnBuy;
    _redisFeeOnSell = redisFeeOnSell;

    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;
}

function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
    _maxTxAmount = maxTxAmount;
}
```

Contract's ownership is renounced.
Owner do not have any special privileges.

07-B

RECOMMENDATIONS FOR
GOOD
PRACTICES

1. Consider fundamental tradeoffs

2. Be attentive to blockchain properties

3. Ensure careful rollouts

4. Keep contracts simple

5. Stay up to date and track development

PawNames
GOOD PRACTICES FOUND

✔ The owner cannot mint new tokens after deployment

✔ The owner cannot stop or pause the contract

✔ The owner can set a transaction limit, but can't lower it than 1% of total supply

✔ The smart contract utilizes "SafeMath" to prevent overflows

Website URL
https://pawnames.com/

Domain Registry
https://www.godaddy.com

Domain Expiration
Expires on 2024-03-05

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.
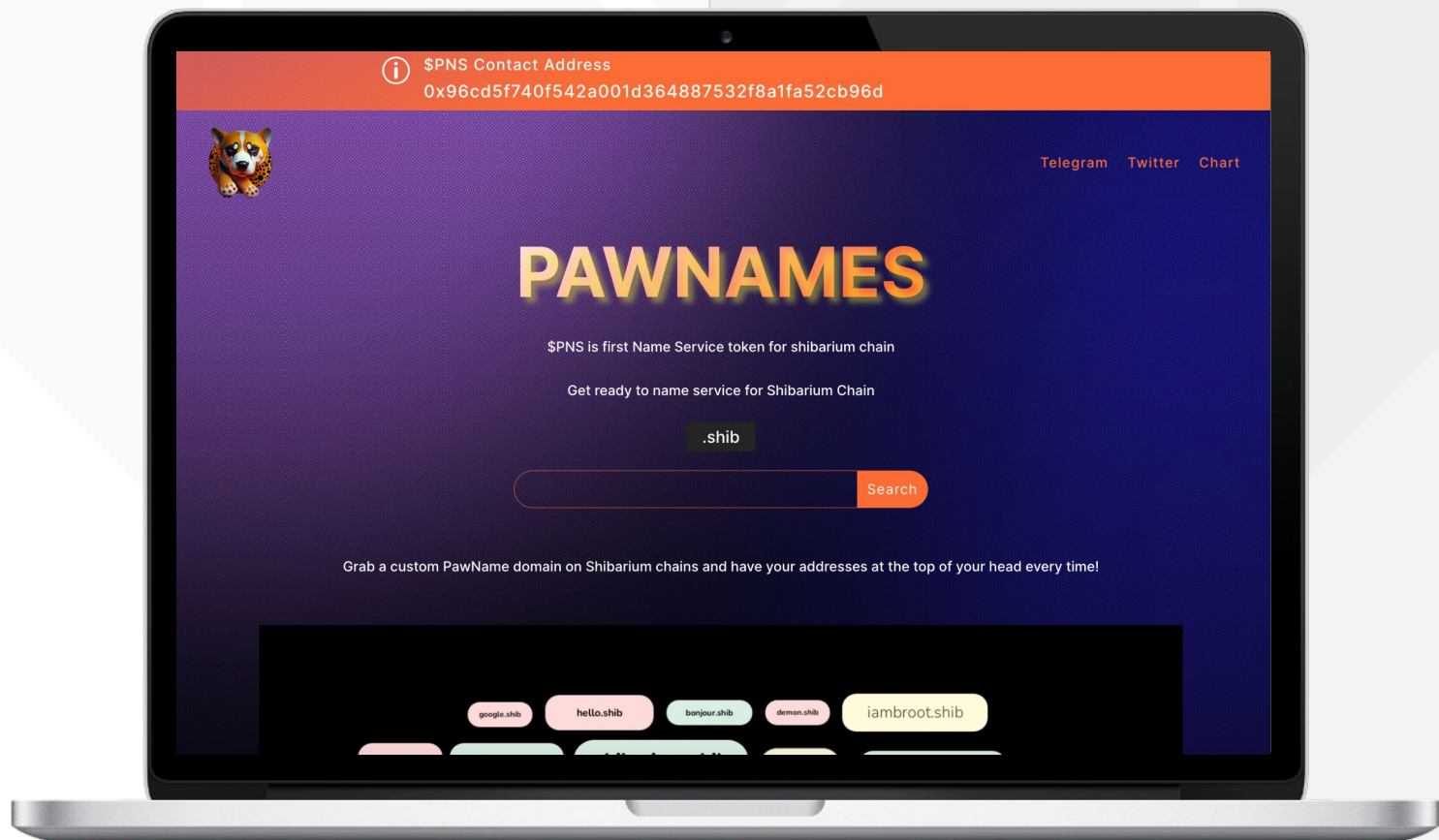
Whitepaper
No whitepaper found

Roadmap

Yes

Mobile-friendly?

Yes

$PNS Contact Address
0x96cd5f740f542a001d364887532f8a1fa52cb96d

Telegram   Twitter   Chart

PAWNAMES

$PNS is first Name Service token for shibarium chain

Get ready to name service for Shibarium Chain

.shib

Search

Grab a custom PawName domain on Shibarium chains and have your addresses at the top of your head every time!

google.shib   hello.shib   bonjour.shib   demon.shib   iambroot.shib

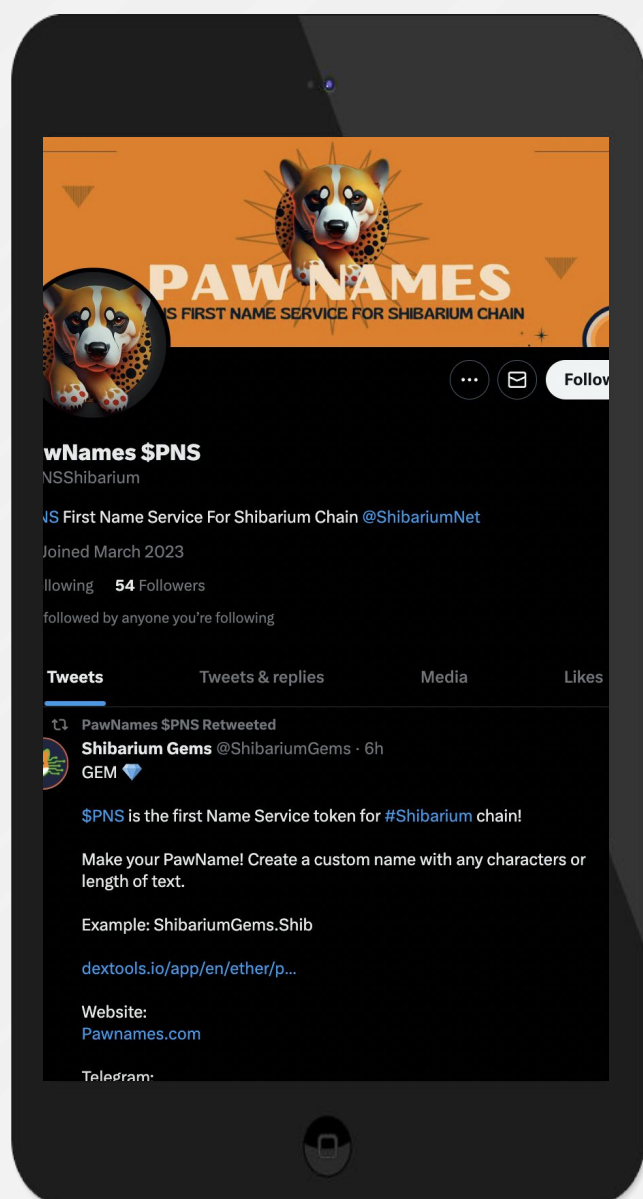# pawnames.com
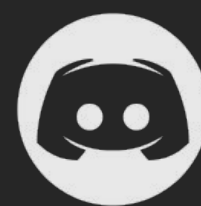
SOCIAL MEDIA
& ONLINE PRESENCE

ANALYSIS

Project's social media activity is concentrated in telegram with organic users interactions.

Twitter

@PNSShibarium

- 55 followers
- Daily posts

Discord

- Not available

Telegram

@pawnames

- 121 members
- Active community and mods

Medium

- Not available

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SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✔ OVER 150 SUCCESSFUL CLIENTS

- ✔ MORE THAN 500 SCAMS EXPOSED

- ✔ MILLIONS SAVED IN POTENTIAL FRAUD

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- ✔ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.